

IN THE CLAIMS

1. (Currently Amended) A roll (100) for pressure treatment of material bands,
with a carrier (3),
with a roll shell (4) mounted around the carrier (3),
with at least one pressure chamber (12) between the carrier (3) and the roll shell (4), which chamber is filled at least partly with a supporting liquid which can transmit the hydraulic supporting force from the carrier (3) to the roll shell (4), at least indirectly
~~characterized in that~~ wherein in the at least one pressure chamber (12) there is provided an elastic element (18') which unrestrictedly communicates with the liquid and is compressible when the liquid pressure required for producing the hydraulic supporting force is exceeded.
2. (Currently Amended) The roll as claimed in claim 1,
~~characterized in that~~ wherein the roll comprises at least one leakage chamber (13) for receiving supporting liquid leaving the pressure chamber (12).

3. (Currently Amended) The roll as claimed in claim 2,
~~characterized in that wherein~~ at least one elastic element (18)
is provided in the at least one leakage chamber (13).

4. (Currently Amended) The roll as claimed in ~~one of claims 1 to 3,~~
~~characterized in that claim 1, wherein~~ the at least one elastic
element (18, 18') comprises a hollow chamber which is, or can
be, provided with a compressible medium.

5. (Currently Amended) The roll as claimed in claim 4,
~~characterized in that wherein~~ the at least one elastic element
(18, 18') is formed as a hose.

6. (Currently Amended) The roll as claimed in ~~claim 4 or 5,~~
~~characterized in that claim 4, wherein~~ the compressible medium
is air.

7. (Currently Amended) The roll as claimed in claim 6,
~~characterized in that wherein~~ the elastic element (18, 18') is
closed and filled with a predetermined pressures.

8. (Currently Amended) The roll as claimed in claim 7,
~~characterized in that wherein~~ the elastic element 18, 18') is

subjected to air under atmospheric pressure.

9. (Currently Amended) The roll as claimed in claim 7,
~~characterized in that~~ wherein the elastic element (18, 18')
comprises a one-way valve, by means of which it can be filled
with air under a pressure that is lower than the pressure
exerted on the hydraulic supporting liquid during operation.
10. (Currently Amended) The roll as claimed in claim 6,
~~characterized in that~~ wherein the at least one elastic element
(18, 18') is connected to a compressed air source (26), by means
of which the pressure can be adjusted in such a way that it is
always slightly higher than the pressure exerted on the
hydraulic supporting liquid.
11. (Currently Amended) The roll as claimed in ~~claims 5 to 10~~,
~~characterized in that~~ claim 5, wherein the elastic elements (18,
18') formed as hoses comprise means for internal support (20).
12. (Currently Amended) The roll as claimed in claim 10,
~~characterized in that~~ wherein the means for internal support
(20) comprise a spiral coil of an elastically deformable
material.

13. (Currently Amended) The roll as claimed in ~~one of claims 1 to 12, characterized in that claim 1, wherein~~ the at least one elastic element (18, 18') is provided in a recess machined into the carrier (3).

14. (Currently Amended) The roll as claimed in claim 13, ~~characterized in that wherein~~ the recess has the form of an axially parallel running longitudinal groove (14, 15, 16, 17).

15. (Currently Amended) The roll as claimed in ~~one of claims 1 to 14, characterized in that claim 1, wherein~~ the means for determining the hydraulic pressure exerted on the supporting liquid are provided.

16. (Currently Amended) The roll as claimed in claim 15, ~~characterized in that wherein~~ the roll is designed in such a way that the means for determining the hydraulic pressure serve for controlling or regulating the pneumatic pressure to which the at least one elastic element (18, 18') is subjected.